PTO/SB/08a (08-03) Approved for use through 07/31/2008, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

or form 1449A/PTO

TROUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of

Complete if Known					
Application Number	10/616,044				
Filing Date	July 8, 2003				
First Named Inventor	Yang, et al.				
Art Unit	1753				
Examiner Name	Nam X. Nguyen				
Attorney Docket Number	AMAT/7669.P2/CMP/ECP/RKK				

Examiner Initiats *	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Number - Kind Code ² (if known)			Figures Appear	
LV	A1	2004/0016647 A1	01/29/2004	Yang, et al.		
1	A2	20040118694 A1	06-24-2004	Yang et al.		
	A3	2004/0016636 A1	01/29/2004	Yang, et al.		
	A4	5,656,386	08-12-1997	Scherer et al.		
	A5	6,423,642	07/23/02	Peace, et al.		
	A6	6,347,837	02/19/02	Watson, et al.		
	A7	5,785,833	07/28/98	Vaughan		
	A8	5,714,521	02/03/98	Kedem, et al.		
	A9	5,705,050	01/06/98	Sampson, et al.		
	A10	5,643,456	07/01/97	Smith, et al.	1	
	A11	5,516,418	05/14/96	Doss, et al.		
	A12	5,486,264	01/23/96	Ghandour	1	
	A13	5,482,680	01/09/96	Wilkinson, et al.		
	A14	5,435,903	07/25/95	Oda, et al.		
	A15	5,287,237	02/15/94	Kitada, et al.		
	A16	4,296,672	10/27/81	Inhofer		
	A17	6,080,291	06/27/00	Woodruff, et al.		
	A18	5,597,460	01/28/97	Reynolds		
$\forall I$	A19	6,740,221	05/25/2004	Cheung, et al.		
V	A20	6,592,736	07/15/2003	Fulton, et al.	1	
LV	A21	6,589,874	07/08/2003	Andricacos, et al.		
					 	
	 				 	

FOREIGN PATENT DOCUMENTS							
Evaminas	Cita	Foreign Patent Document	0.57	Name of Patentee or	Pages, Columns, Lines,		
Examiner Cite No.1		Country Code ³ - Number ⁴ - Kind Code ⁶ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁰	
T.V	B1	11 186210	07/09/99	JP			
	B 2	11 162905	06/18/99	JP			
	В3	10 242110	09/11/98	JP			
	B4	10 177988	06/30/98	JP			
7/	85	9 293658	11/11/97	JP			
V	86	7 14811	01/17/95	5			
LV	87	WO-98/27585	06/25/1998	IBM Corporation			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known SUPPLEMENTAL Application Number 10/616,044 Filing Date July 8, 2003 **INFORMATION DISCLOSURE** First Named Inventor Yang, et al. STATEMENT BY APPLICANT Art Unit 1753 (Use as many sheets as necessary) Examiner Name Nam X. Nguyen Sheet of 3 AMAT/7669.P2/CMP/ECP/RKK Attorney Docket Number

U.S. PATENT DOCUMENTS							
Examiner Cite		Document Number	Publication Date	Name of Patentee or Applicant of	Ones Column Harris Marin But		
Initials *	No.	Number - Kind Code ² (if known)	MM-DD-YYYY	. Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
LΫ	A22	6,518,184	02/11/2003	Chambers, et al.			
1	A23	6,270,635	08/07/2001	Woo			
	A24	6,090,260	07/18/2000	Inoue, et al.			
	A25	5,162,079	11/10/1992	Brown			
	A26	5,071,591	12/10/1991	Sheridan			
	A27	4,840,820	06/20/1989	Schultz, et al.			
	A28	4,632,851	12/30/1988	Broadbent, et al.			
	A29	4,469,564	09/04/1984	Okinaka, et al.			
	A30	2004/0200725	10/14/2004	Yahalom, et al.			
	A31	2004/0134775	07/15/2004	Yang, et al.			
	A32	2003/0159937	08/28/2003	Gandikota, et al.			
	A33	2003/0116445	08/28/2003	Sun, et al.			
	A34	2002/0063097	05/30/2002	Fukunaga, et al.			
	A35	2002/0033340	03/21/2002	Cheung, et al.			
	A36	2001/0052465	12/20/2001	Dordi, et al.			
	A37	2004-0074761	04-22-2004	Herchen et al.			
	A38	2004-0149573	08-05-2004	Herchen			
	A39	2003-0010640	01-16-2003	Kholodenko			
	A40	2004-0074762	04-22-2004	Keigler et al.			
	A41	2004-0206628	10-21-2004	Lubomirsky et al.			
V	A42	2004-0016637	01-29-2004	Yang et al.			
	A43	2004-0217005	01-14-2004	Yang et al.			
ĹV	A44	2004-0192086	01-30-2004	Lubomirsky et al.			

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication	Name of Palentee or	Pages, Columns, Lines, Where Relevant		
	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Date Ap	Applicant of Cited Document	Passages or Relevant Figures Appear	T ⁶	
			V A				
					•		

Examiner	0/2006) Date
Signature /Luan Van/ (08	Considered

[&]quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Indication of the year of the reign of the Emperor must precede the serial number of the patent document. Indication is a check mark here if English tanguage Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO Complete if Known Application Number 10/616,044 SUPPLEMENTAL INFORMATION Filing Date July 8, 2003 **DISCLOSURE STATEMENT BY** First Named Inventor Yang, et al. **APPLICANT** Art Unit 1753 (Use as many sheets as necessary) Examiner Name Nam X. NGuyen Sheet of 3 Attomey Docket Number AMAT/7669.P2/CMP/ECP/RKK

		NON PATENT LITERATURE DOCUMENTS		
Examin er Initials *	No. item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue			
LV	C1	Colombo; "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy		
LV	C2	Pitney, "Ney Contact Manual" October 1974	\dagger	
LV	СЗ	Semitool Product Catalog (on-line) October 27, 1998		
LV	C4	Singer, "Copper Has Enormous Benefits When Compared to Aluminum, but its Implementation Requires Some Fundamental Changes in Process Technologies," Semiconductor International June 1998.		
LV	C5	Singer, "Wafer Processing," Semiconductor International June 1998.		
LV	C6	PCT International Search Report from International Application No. PCT/US 2004/022183, dated October 15, 2004.		
	ļ		ļ. <u> </u>	
			<u> </u>	

Examiner Signature	/Luan Van/	(07/31/2006)	Date Considered		•	
-----------------------	------------	--------------	--------------------	--	---	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-